



SEQUENCE LISTING

<110> Wood, Keith
Hannah, Rita
Moravec, Richard A.

<120> Method for Detection of ATP

<130> 10743-6

<140> US 09/813,279

<141> 2001-03-19

<150> US 60/269,526

<151> 2001-02-16

<160> 8

<170> Microsoft Word (Text Only Format)

<210> 1

<211> 544

<212> PRT

<213> Artificial Sequence

<220> 78-OB10

<223> Mutant luciferase derived from LucPpe2

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35 40 45
Asn Val Leu Tyr Glu Glu Phe Leu Lys Leu Ser Cys Arg Leu Ala Glu
50 55 60
Ser Phe Lys Lys Tyr Gly Leu Lys Gln Asn Asp Thr Ile Ala Val Cys
65 70 75 80
Ser Glu Asn Gly Leu Gln Phe Phe Leu Pro Val Ile Ala Ser Leu Tyr
85 90 95
Leu Gly Ile Ile Ala Ala Pro Val Ser Asp Lys Tyr Ile Glu Arg Glu
100 105 110
Leu Ile His Ser Leu Gly Ile Val Lys Pro Arg Ile Ile Phe Cys Ser
115 120 125
Lys Asn Thr Phe Gln Lys Val Leu Asn Val Lys Ser Lys Leu Lys Ser
130 135 140
Val Glu Thr Ile Ile Ile Leu Asp Leu Asn Glu Asp Leu Gly Gly Tyr
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Gln Cys Leu Asn Asn Phe Ile Ser Gln Asn Ser Asp Ser Asn Leu Asp
165 170 175
Val Lys Lys Phe Lys Pro Tyr Ser Phe Asn Arg Asp Asp Gln Val Ala
180 185 190
Leu Val Met Phe Ser Ser Gly Thr Thr Gly Val Pro Lys Gly Val Met
195 200 205
Leu Thr His Lys Asn Ile Val Ala Arg Phe Ser Leu Ala Lys Asp Pro
210 215 220
Thr Phe Gly Asn Ala Ile Asn Pro Thr Thr Ala Ile Leu Thr Val Ile

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Glu	Pro	Gly	Glu	Leu	Tyr	Phe	Lys	Gly	Ala	Met	Ile	Met	Lys	Gly	Tyr
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Tyr	Asn	Asn	Glu	Glu	Ala	Thr	Lys	Ala	Ile	Ile	Asp	Asn	Asp	Gly	Trp
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SEQUENCE LISTING

<110> Wood, Keith
Hannah, Rita
Moravec, Richard A.

<120> Improved Method for Detection of ATP

<130> 10743-6

<140> US 09/813,279

<141> 2001-03-19

<150> US 60/269,526

<151> 2001-02-16

<160> 8

<1>SEQUENCE LISTING

<110> Wood, Keith
Hannah, Rita
Moravec, Richard A.

<120> Improved Method for Detection of ATP

<130> 10743-6

<140> US 09/813,279

<141> 2001-03-19

<150> US 60/269,526

<151> 2001-02-16

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Ser Glu Asn Gly Leu Gln Phe Phe Leu Pro Val Ile Ala Ser Leu Tyr
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Leu Gly Ile Ile Val Ala Pro Val Asn Asp Lys Tyr Ile Glu Arg Glu
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Leu Ile His Ser Leu Gly Ile Val Lys Pro Arg Ile Val Phe Cys Ser
115 120 125
Lys Asn Thr Phe Gln Lys Val Leu Asn Val Lys Ser Lys Leu Lys Ser
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Ile Glu Thr Ile Ile Ile Leu Asp Leu Asn Glu Asp Leu Gly Gly Tyr
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Leu Gln Ser Leu Gln Asp Tyr Lys Val Glu Ser Thr Leu Leu Val Pro
275 280 285
Thr Leu Met Ala Phe Leu Ala Lys Ser Ala Leu Val Glu Lys Tyr Asp
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Ala	Val	Lys	Val	Val	Asp	Pro	Thr	Thr	Gly	Lys	Ile	Leu	Gly	Pro	Asn	
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Glu	Pro	Gly	Glu	Leu	Tyr	Phe	Lys	Gly	Pro	Met	Ile	Met	Lys	Gly	Tyr	
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Val	Gln	Asp	Tyr	Val	Ala	Ser	Gln	Val	Ser	Thr	Ala	Lys	Trp	Leu	Arg
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Gly	Gly	Val	Lys	Phe	Leu	Asp	Glu	Ile	Pro	Lys	Gly	Ser	Thr	Gly	Lys
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 <212> DNA
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 <220> 78-OB10
 <223> Mutant luciferase derived from LucPpe2

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 AAAAATTTTG GGGCCAAATG AACCTGGAGA ATTGTATTTT AAAGGCGCCA TGATAATGAA 1200
 GGGTTATTAT AATAATGAAG AAGCTACTAA AGCAATTATT GATAATGACG GATGGTTGCG 1260
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 <213> Artificial Sequence
 <220> 90-1B5
 <223> Mutant luciferase derived from LucPpe2

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 CATAGCATTG ACAAATGCTC ATACAAAAGA AAATGTTTTA TATGAAGAGT TTCTGAAACT 180
 GTCGTGTCGT TTAGCGGAAA GTTTTAAAAA GTATGGATTA AAACAAAACG ACACAATAGC 240
 GGTGTGTAGC GAAAATGGTC TGCAATTTTT CCTTCCTGTA ATTGCATCAT TGTATCTTGG 300

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TATTGTAAAA	CCACGCATAG	TTTTTTGCTC	CAAGAATACT	TTTCAAAAAG	TACTGAATGT	420
AAAATCTAAA	TTAAATCTA	TTGAACTAT	TATTATATTA	GACTTAAATG	AAGACTTAGG	480
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AAAATTTAAA	CCATATTCTT	TTAATCGAGA	CGATCAGGTT	GCGTTGATTA	TGTTTTCTTC	600
TGGTACAACT	GGTCTGCCGA	AGGGAGTCAT	GCTAACTCAC	AAGAATATTG	TTGCACGATT	660
TTCTCTTGCA	AAAGATCCTA	CTTTTGGTAA	CGCAATTAAT	CCCACGACAG	CAATTTTAAC	720
GGTAATACCT	TTCCACCATG	GTTTTGGTAT	GATGACCACA	TTAGGATACT	TTACTTGTGG	780
ATTCCGAGTT	GTTCTAATGC	ACACGTTTGA	AGAAAACTA	TTTCTACAAT	CATTACAAGA	840
TTATAAAGTG	GAAAGTACTT	TACTTGTAAC	AACATTAATG	GCATTTCTTG	CAAAAAGTGC	900
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GGGATCAACT	GGTAAAATAG	TACCATTTCA	CGCTGTAA	GTTGTCGATC	CTACAACAGG	1140
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GGGTTATTAT	AATAATGAAG	AAGCTACTAA	AGCAATTATT	GATAATGACG	GATGGTTGCG	1260
CTCTGGTGAT	ATTGCTTATT	ATGACAATGA	TGGCCATTTT	TATATTGTGG	ACAGGCTGAA	1320
GTCACTGATT	AAATATAAAG	GTTATCAGGT	TGCACCTGCT	GAAATTGAGG	GAATACTCTT	1380
ACAACATCCG	TATATTGTTG	ATGCCGGCGT	TACTGGTATA	CCGGATGAAG	CCGCGGGCGA	1440
GCTTCCAGCT	GCAGGTGTTG	TAGTACAGAC	TGGAAAATAT	CTAAACGAAC	AAATCGTACA	1500
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<210> 7

<211> 1639

<212> DNA

<213> Artificial Sequence

<220> 133-1B2

<223> Mutant luciferase derived from LucPpe2

<400> 7

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GTCGTGTCGT	TTAGCGGAAA	GTTTTAAAAA	GTATGGATTA	AAACAAAACG	ACACAATAGC	240
GGTGTGTAGC	GAAAATAGTC	TGCAATTTTT	CCTTCCTGTA	ATTGCATCAT	TGTATCTTGG	300
AATAATTGTG	GCACCTGTTA	ACGATAAATA	CATTGAACGT	GAATTAATAC	ACAGTCTTGG	360
TATTGTAAAA	CCACGCATAG	TTTTTTGCTC	CAAGAATACT	TTTCAAAAAG	TACTGAATGT	420
AAAATCTAAA	TTAAATCTA	TTGAACTAT	TATTATATTA	GACTTAAATG	ATGACTTAGG	480
AGGTTATCAA	TGCTCAACA	ACTTTATTTT	TCAAAATTCC	GATAGTAATC	TGGACGTAAA	540
AAAATTTAAA	CCATATTCTT	TTAATCGAGA	CGATCAGGTT	GCGTTGATTA	TGTTTTCTTC	600
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TTCTATTGCA	AAAGATCCTA	CTTTTGGTAA	CGCAATTAAT	CCCACGTCAG	CAATTTTAAC	720
GGTAATACCT	TTCCACCATG	GTTTTGGTAT	GATGACCACA	TTAGGATACT	TTACTTGTGG	780
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GCTTCCAGCT	GCAGGTGTTG	TAGTACAGAC	TGGAAAATAT	CTAAACGAAC	AAATCGTACA	1500

AGATTATGTT	GCCAGTCAAG	TTTCAACAGC	CAAATGGCTA	CGTGGTGGGG	TGATATTTTT	1560
GGATGAAATT	CCCAAAGGAT	CAACTGGAAA	AATTGACAGA	AAAGTGTTAA	GACAAATGTT	1620
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4210 8
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 4212 DNA
 4213 Artificial Sequence
 4220 146-1H2
 4223 Mutant luciferase derived from LucPpe2

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GTGCTGTGCT	TTAGCGGAAA	GTTTTAAAAA	GTATGGATTA	AAACAAAACG	ACACAATAGC	240
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